

**IN THE CLAIMS:**

Please find below a listing of all pending claims. The statuses of the claims are set forth in parentheses. For those currently amended claims, underlined emphasis indicates insertions and ~~strike through~~ emphasis (and/or double brackets) indicates deletions.

1-16. (Previously Cancelled)

17. (Currently Amended) A central processing unit comprising:

an input unit to input ~~that inputs~~ a command that is can be executed by using a firmware or a logic circuit;

a storing unit to store ~~that stores~~ a plurality of operation modes, each one of the operation modes corresponding to a different set of commands and a different set of resources required for executing the commands that are available when the each one of the operation modes is set;

a determining unit to determine ~~that determines~~ whether the input command is included or not in the set of commands corresponding to a current operation mode;

an access control unit to determine ~~that~~, when the input command is included in the set of commands corresponding to the current operation mode, ~~determines~~ whether a necessary resource to execute the input command is included or not in ~~[[the]]~~ an available set of resources corresponding to the current operation mode, and to prohibit access to the necessary resource if the necessary resource is not included in the available set of resources; and

an execution unit to execute ~~that~~, when the necessary resource is included in the available set of resources ~~corresponding to the current operation mode~~, ~~executes~~ the input command by using the firmware or the logic circuit in conjunction with the necessary resource.

18. (Previously Presented) The central processing unit according to claim 17, wherein

the input unit inputs an operation mode adding command for storing a new operation mode in the storing unit, and

the execution unit makes the storing unit store the new operation mode, when the operation mode adding command is included in the set of commands corresponding to the current operation mode.

19. (Previously Presented) The central processing unit according to claim 18, wherein the execution unit makes the storing unit store the new operation mode, only when a number of commands corresponding to the new operation mode is greater than a number of commands corresponding to any one of the operation modes stored in the storing unit.

20. (Currently Amended) The central processing unit according to claim 17, wherein

the input unit inputs [[an]]a firmware acquiring command for acquiring a new firmware that is used to execute a command, and

the execution unit acquires the new firmware from outside, when the firmware acquiring command is included in the set of commands corresponding to the current operation mode.

21. (Previously Presented) The central processing unit according to claim 20, wherein the execution unit acquires an encrypted firmware and decrypts the encrypted firmware.

22. (Previously Presented) The central processing unit according to claim 20, wherein the execution unit acquires a digitally signed firmware and authenticates the firmware.

23. (Previously Cancelled)

24. (Currently Amended) The central processing unit according to claim 17, further comprising:

an operation mode deleting unit to delete ~~that deletes~~ a specified operation mode from the storing unit; and

a firmware deleting unit to delete ~~that deletes~~ a firmware corresponding to the operation mode deleted.

25. (Currently Amended) The central processing unit according to claim 17, further comprising:

an execution request unit to request ~~that requests~~ an external emulator to execute the input command, when the input command is not included in the set of commands corresponding to the current operation mode.

26. (Previously Presented) The central processing unit according to claim 17, wherein

the input unit inputs a logic circuit data acquiring command for acquiring a logic circuit data to generate a new logic circuit that is used to execute a command, and

the execution unit acquires the logic circuit data from outside, when the logic circuit data acquiring command is included in the set of commands corresponding to the current operation mode, and generates the new logic circuit based on the logic circuit data acquired.

27. (Currently Amended) A method for managing a plurality of operating modes comprising:

inputting a command ~~that can be~~ to be executed by using a firmware or a logic circuit;

determining whether the input command is included ~~or not~~ in a set of commands corresponding to a current operation mode, where each one of the operation modes corresponds to a different set of commands and a different set of resources required for executing the commands that are available when the each one of the operation modes is set;

determining whether a necessary resource to execute the input command is included or not in ~~[[the]]~~ an available set of resources corresponding to the current operation mode, when the input command is included in the set of commands corresponding to the current operation mode;

prohibiting access to the necessary resource that is not included in the available set of resources; and

executing the input command by using the firmware or the logic circuit in conjunction with the necessary resource, when the necessary resource is included in the available set of resources ~~corresponding to the current operation mode~~.

28. (Currently Amended) A computer-readable recording medium that stores a computer program for managing a plurality of operating modes, the computer program makes a computer execute:

inputting a command ~~that can be~~ to be executed by using a firmware or a logic circuit;

determining whether the input command is included or not in a set of commands corresponding to a current operation mode, where each one of the operation modes corresponds to a different set of commands and a different set of resources required for executing the commands that are available when the each one of the operation modes is set;

determining whether a necessary resource to execute the input command is included or not in ~~[[the]]~~ an available set of resources corresponding to the current

operation mode, when the input command is included in the set of commands corresponding to the current operation mode;

prohibiting access to the necessary resource if the necessary resource is not included in the available set of resources; and

executing the input command by using the firmware or the logic circuit in conjunction with the necessary resource, when the necessary resource is included in the available set of resources ~~corresponding to the current operation mode~~.

29. (Previously Presented) The computer-readable recording medium according to claim 28, wherein

the inputting includes inputting an operation mode adding command for storing a new operation mode in a storing unit that stores the operation modes, and

the executing includes making the storing unit store the new operation mode, when the operation mode adding command is included in the set of commands corresponding to the current operation mode.

30. (Previously Presented) The computer-readable recording medium according to claim 29, wherein the executing includes making the storing unit store the new operation mode, only when a number of commands corresponding to the new operation mode is greater than a number of commands corresponding to any one of the operation modes stored in the storing unit.

31. (Currently Amended) The computer-readable recording medium according to claim 28, wherein

the inputting includes inputting [[an]]a firmware acquiring command for acquiring a new firmware that is used to execute a command, and

the executing includes acquiring the new firmware from outside, when the firmware acquiring command is included in the set of commands corresponding to the current operation mode.

32. (Previously Presented) The computer-readable recording medium according to claim 31, wherein the executing includes acquiring an encrypted firmware and decrypting the encrypted firmware.

33. (Previously Presented) The computer-readable recording medium according to claim 31, wherein the executing includes acquiring a digitally signed firmware and authenticating the firmware.

34. (Previously Cancelled)

35. (Previously Presented) The computer-readable recording medium according to claim 28, the computer program further makes the computer execute:

deleting a specified operation mode from a storing unit that stores the operation modes; and

deleting a firmware corresponding to the operation mode deleted.

36. (Previously Presented) The computer-readable recording medium according to claim 28, the computer program further makes the computer execute requesting an external emulator to execute the input command, when the input command is not included in the set of commands corresponding to the current operation mode.